



52288B-SEQ-listing.txt
SEQUENCE LISTING

<110> Hillyard, Jeanna
Roberts, James
Ye, Minwei

<120> Cotton Event PV-GHBK04 (757) and Compositions and Methods for Detection Thereof

<130> 38-21 (52288)B

<140> 09/990,659

<141> 2001-11-16

<150> US60/249,757

<151> 2000-11-17

<160> 21

<170> PatentIn version 3.0

<210> 1

<211> 20

<212> DNA

<213> artificial sequence

<220>

<221> misc_feature

<222> (1)..(20)

<223> a 5' genome-insert junction nucleotide sequence which is/is complementary to a sequence diagnostic for nucleic acids derived from the cotton event 757 recombinant genome

<400> 1

gtttgcttgg acactgatag

20

<210> 2

<211> 20

<212> DNA

<213> artificial sequence

<220>

<221> misc_feature

<222> (1)..(20)

<223> a 3' genome-insert junction nucleotide sequence which is/is complementary to a sequence diagnostic for nucleic acids derived from the cotton event 757 recombinant genome

<400> 2

aaaccctttc tggaaaaata

20

<210> 3

<211> 20

<212> DNA

<213> Gossypium hirsutum

<220>

<221> misc_feature

<222> (1)..(20)

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<400> 3
 tggtctgtgg aaaaggaagg 20

<210> 4
 <211> 20
 <212> DNA
 <213> Gossypium hirsutum

<220>
 <221> misc_feature
 <222> (1)..(20)

<400> 4
 atgcctgcag gtcaattcaa 20

<210> 5
 <211> 138
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(138)
 <223> part of a 5' non-functional sequence inserted into the cotton genome in cotton event 757

<400> 5
 acactgatag tttaaactga aggcgggaaa cgacaatctg atcccagctt gcatgcctgc 60
 aggtcaattc aatattgtgg caggacattg ctacatgata cctcttagaa ttgttttagac 120
 ttcagatcga tcttgtca 138

<210> 6
 <211> 767
 <212> DNA
 <213> Gossypium hirsutum

<220>
 <221> Unsure
 <222> (1)..(767)
 <223> 5' cotton (Gossypium hirsutum) genome sequence

<400> 6
 gtcccggggg cttatcctgt attcatttgc acccacataa acagccaaat taaccaaacc 60
 catattcaac tgaaactccc aaagccattc ctacttttagc ttttcacca ctaactcaaa 120
 agaaaacact cacctagctt ctttgctttt tcttttggat tgttttagat ctacaaaaag 180
 atgattcaag aactccttgg aggttcttct tgcttaaact ttggagggga gaggaagatc 240
 tccatcaatg gaagcatttt ggaaggaacc ccacttctt ctccatcacc atcatcttct 300
 tcttcttcgg cgacgacttc atcgaccact aattcatcga atccggagaa tcatcaccag 360
 aatttgaggt gccccaggtg tgattcctcc aacacaaagt tctgctatta caacaactac 420
 aacctcactc agcctcgtca cttttgcaag acttgccgtc ggtattggac caaaggagga 480

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gctctcagaa acgttcctat tgggtggtggg tgtaggaaaa acaaaagcac tactggtggt      540
tcaacatctc tggggaaatc aacttcttcc aagatgaaaa cagtagtttc tgaaattgga      600
agatctgggt tcgatcatga gcttcagtct actccaattc tttggacttc agcgggcccag      660
acttcccatc ttctatccaa tctaacctca atgagagcta ccctaaaccc taaccctaac      720
acattgtcta accctgtttag tattaaggaa gaagtgaagt tgcttggt                      767

```

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<210> 7
<211> 206
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(206)
<223> part of arbitrarily assigned 3' end DNA sequence inserted into th
      e cotton event 757 genome.

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<400> 7
tgagggatca agccacagca gccactcga ctttctagcc gaccagacg agccaaggga      60
tcttttttga atgctgctcc gtcgtcaggc tttccgacgt ttgggtggtt gaacagaagt      120
cattatcgca cggaatgcc agcactcccg aggggaaccc tgtggttggc atgcacatac      180
aaatggacga acggataaac cttttc                                           206

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<210> 8
<211> 307
<212> DNA
<213> Gossypium hirsutum

<220>
<221> Unsure
<222> (1)..(307)
<223> 3' cotton (Gossypium hirsutum) genome sequence

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<400> 8
tggaaaaata atcaacacca cgctcaacaa caacagaata ataatggggtt cttttagtgt      60
gaagttcaaa acacaggtat tcaagaactg tatcaaaggc tcaaatacat atcaagttat      120
tactctgata cttcagcagt aattctaagc aatgtcgctt cttcttcac aacatccatt      180
ttggagtcag ctccagttgc tggggggagaa ttgggttact ggaatccggc attttcatca      240
tcgtggtctg atcttccaac aactaatggt gcatatcctt aaaataaccc tttacctttc      300
gtttaat                                           307

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<210> 9
<211> 26
<212> DNA
<213> artificial sequence

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<220>
 <221> misc_feature
 <222> (1)..(26)
 <223> 5' cotton (Gossypium hirsutum) genome PCR primer

<400> 9
 gagagagata ggcactaaag taagca

26

<210> 10
 <211> 28
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(28)
 <223> 5' insert PCR primer

<400> 10
 ttagacaaat tgtcacgggtc taccagaa

28

<210> 11
 <211> 24
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(24)
 <223> 3' insert PCR primer

<400> 11
 ttcccaacga tcaaggcgag ttac

24

<210> 12
 <211> 27
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(27)
 <223> 3' cotton (Gossypium hirsutum) genome PCR primer

<400> 12
 ttgatgcact tacgaaagaa gaaccga

27

<210> 13
 <211> 905
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(905)
 <223> 5' cotton (Gossypium hirsutum) genome + insert sequence

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<400> 13
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agaaaacact cacctagctt ctttgctttt tcttttggat tgttttagat ctacaaaaag      180
atgattcaag aactccttgg aggttcttct tgcttaaact ttggagggga gaggaagatc      240
tccatcaatg gaagcatttt ggaaggaacc ccacttctt ctccatcacc atcatcttct      300
tcttcttcgg cgacgacttc atcgaccact aattcatcga atccggagaa tcatcaccag      360
aatttgaggt gccccaggtg tgattcctcc aacacaaagt tctgctatta caacaactac      420
aacctcactc agcctcgtca cttttgcaag acttgccgtc ggtattggac caaaggagga      480
gctctcagaa acgttcctat tgggtggtggg tgtaggaaaa acaaaagcac tactggtggt      540
tcaacatctc tggggaaatc aacttcttcc aagatgaaaa cagtagtttc tgaaattgga      600
agatctgggt tcgatcatga gcttcagtct actccaattc tttggacttc agcggcccag      660
acttcccata ttctatccaa tctaacctca atgagagcta ccctaaaccc taaccctaac      720
acattgtcta accctgttag tattaaggaa gaagtgaagt tgcttggaca ctgatagttt      780
aaactgaagg cgggaaacga caatctgata ccagcttgca tgccctgcagg tcaattcaat      840
attgtggcag gacattgcta catgatacct ctagaattg tttagacttc agatcgatct      900
tgtca                                           905

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<210> 14
<211> 513
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(513)
<223> 3' cotton (Gossypium hirsutum) genome + insert sequence

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```

<400> 14
tgagggatca agccacagca gccactcga ccttctagcc gaccagacg agccaagggga      60
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cattatcgca cggaatgcc aagcactccg aggggaaccc tgtggttggc atgcacatac      180
aatggacga acggataaac cttttctgga aaaataatca acaccacgct caacaacaac      240
agaataataa tgggttcctt gtaggtgaag ttcaaaacac aggtattcaa gaactgtatc      300
aaaggctcaa atcatcatca agttattact ctgatacttc agcagtaatt ctaagcaatg      360
tcgcttcttc ttcatacaac tccattttgg agtcagctcc agttgctggg ggagaattgg      420
gttactggaa tccggcattt tcatcatcgt ggtctgatct tccaacaact aatggtgcat      480

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atccttaaaa taacccttta cctttcgttt aat

513

<210> 15
 <211> 4973
 <212> DNA
 <213> artificial sequence

<220>
 <221> misc_feature
 <222> (1)..(4973)
 <223> sequence of 5' flank to full-length cry1Ac coding region

<400> 15
 cggcccagac ttcccatctt ctatccaatc taacctcaat gagagctacc ctaaacccta 60
 accctaacac attgtctaac cctgttagta ttaaggaaga agtgagtttg cttggacact 120
 gatagtttaa actgaaggcg ggaaacgaca atctgatccc agcttgcatg cctgcaggtc 180
 aattcaatat tgtggcagga cattgctaca tgatacctct tagaattggt tagacttcag 240
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 gacaatttgt ctaagatgta tctgatttaa tgccttttgt atataatata ctcatctaata 360
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 catatcaaata tagctaagca gacagttgaa gtacacaaaa caaaagcatc atatgctgat 480
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 acttaagctc gtcggtgttg ttctcgatct cgtggatggc cacgcaacct tcaccgtatc 1080
 cctccttgta agcggtcaca cggagaatgt agcctctacc tggacagact ctaacctctt 1140
 gggacacttc agcttccac tcaggcaca ccaggacgga acgctgattg ttctgttctt 1200
 ccacgtccac atgaccttcc acattccagc agctgaggcc attggtgaag tcaccgttct 1260
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 cgaagatggc agcgttcaca ccagggatca cggacaactc aggcaagtaa gcttcacgaa 1380
 tgctgtgcac acgtttgtct gcggcggtga tcatggcgat gttgggtgtc gcttgcaact 1440
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cacgagcgag agcttcaccg accaatgggt tctcttcgag aaactcaagg ttgccaagtc	1620
ttgcgtgtcc gtcttgggtc ttgatcttga agatgacca gactccgagg tcctcattca	1680
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taggctctcc acacttccca atgggagatt gggcagaaag tggccagagg gaaccagtac	1860
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cgatcttctg gtacaagtag gtagggtagc actcgtcgaa agttccggag agggtgacgt	2040
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cacgttctgg ctgcctgttg atgtcttga agttggagtc ttgcaagaga ttcctctcgt	2160
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gatatctcca ctgacgtaag ggatgacgca caatcccact atccttcgca agacccttc	3180
tctatataag gaagttcatt tcatttggag aggacacgct gacaagctga ctctagcaga	3240
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<210> 16
<211> 19
<212> DNA
<213> artificial sequence

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<220>
<221> misc_feature
<222> (1)..(19)
<223> 5' primer to 5' flanking sequence of SEQ ID NO: 15 from 8 to 26;

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<400> 16
gacttcccat cttctatcc
19

<210> 17
<211> 19
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(19)
<223> 3'primer to partial e35S promoter of SEQ ID NO: 15 from 3154 to 3
136

<400> 17
attgtgcgtc atcccttac
19

<210> 18
<211> 22
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(22)
<223> 5'primer to partial 3' cry1Ac sequence of SEQ ID NO: 15 from 2581
to 2603

<400> 18
gaataggggt cacagaagca ta
22

<210> 19
<211> 20
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(20)
<223> 3'primer to partial 5' cry1Ac sequence of SEQ ID NO: 15 from 3455
to 3435

<400> 19
ggaccaaaga taccccagat
20

<210> 20
<211> 19
<212> DNA
<213> artificial sequence

<220>
<221> misc_feature
<222> (1)..(19)
<223> 5'primer to partial e35S promoter of SEQ ID NO: 15 from 2993 to 3
011

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<400> 20
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<210> 21
<211> 25
<212> DNA
* <213> artificial sequence

<220>
^<221> misc_feature
<222> (1)..(25)
<223> 3'primer to full-length cry1Ac sequence of SEQ ID NO: 15 from 497
3 to 4949

<400> 21
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10